

## Abstract of the Disclosure

An object is to prevent a false signal from being generated. In a CCD comprising a lot of photodiodes, vertical transfer paths, and a horizontal transfer path, signal charges  
5 respectively representing R, G and B color components are mixed in the horizontal transfer path. Therefore, readout of the signal charges inputted to the horizontal transfer path from the photodiodes is controlled such that the order of the color components respectively represented by the signal charges is  
10 a repetition of R, G, B and G and a repetition of B, G, R and G in every other row. When complementary colors are generated by mixing pixels in the horizontal transfer path, they differ even in the same column, thereby making it possible to prevent a false signal from being generated.